

### **Abstract**

A linear guide unit comprising a guide carriage (3) that is mounted through rolling elements (2) for sliding on a guide rail (1), said guide carriage (3) comprising a carrier body (4) and end caps (5) arranged on front ends of the carrier body (4), the linear guide unit comprising at least one endless rolling element channel (6) comprising a load-bearing channel (7) for load-bearing rolling elements (2), a return channel (8) for returning rolling elements (2) and two deflecting channels (9) that connect the load-bearing channel (7) and the return channel (8) endlessly to each other and are defined by the end caps (5), a support rail (10) arranged along the load-bearing channel (7) and supported on the carrier body (4) comprising a raceway (16) for the rolling elements (2) that defines the load-bearing channel (7) the support rail (10) comprising a support member (11) and a saddle member (12), the support member (11) being received on the carrier body (4), and the saddle member (12) comprising the raceway (16) while being supported through a saddle surface (17) for tilting motion on the support member (11).